

# HAND1 cDNA

Catalog Number: ATGD0017

## PRODUCT INFORMATION

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**Catalog number**

ATGD0017

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_004812.1

**Alternative Names**

bHLHa27, eHand, Hxt, Thing1

**mRNA Refseq**

NM\_004821.2

**OMIM**

602406

**Chromosome location**

5q33

## PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

648bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

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HAND1 belongs to the basic helix-loop-helix family of transcription factors. This protein is one of two closely related family members, the HAND proteins, which are asymmetrically expressed in the developing ventricular chambers and play an essential role in cardiac morphogenesis. Working in a complementary fashion, they function in the formation of the right ventricle and aortic arch arteries, implicating them as mediators of congenital heart disease. In addition, it has been suggested that this transcription factor may be required for early trophoblast differentiation

## DATA

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### Sequence nucleotides

```
ATGAACCTCG TGGGCAGCTA CGCACACCAT CACCACCATC ACCACCCGCA CCCTGCGCAC CCCATGCTCC
ACGAACCCTT CCTCTTCGGT CCGGCCTCGC GCTGTCATCA GGAAAGGCC TACTTCCAGA GCTGGCTGCT
GAGCCCGGCT GACGCTGCCC CGGACTTCCC TCGGGGCGGG CCGCCGCCCG CGGCCGCTGC AGCCGCCACC
GCCTATGGTC CTGACGCCAG GCCTGGGCAG AGCCCCGGGC GGCTGGAGGC GCTTGGCGGC CGTCTTGGCC
GGCGGAAAGG CTCAGGACCC AAGAAGGAGC GGAGACGCAC TGAGAGCATT AACAGCGCAT TCGCGGAGTT
GCGCGAGTGC ATCCCCAACG TGCCGGCCGA CACCAAGCTC TCCAAGATCA AGACTCTGCG CCTAGCCACC
AGCTACATCG CCTACCTGAT GGACGTGCTG GCCAAGGATG CACAGTCTGG CGATCCCGAG GCCTTCAAGG
CTGAACTCAA GAAGGCGGAT GGCGGCCGTG AGAGCAAGCG GAAAAGGGAG CTGCAGCAGC ACGAAGGTTT
TCCTCCTGCC CTGGGCCAG TCGAGAAGAG GATTAAAGGA CGCACCGGCT GGCCGCAGCA AGTCTGGGCG
CTGGAGTTAA ACCAGTGA
```

### Transaction Sequence

```
MNLVGSYAHH HHHHHHPHAH PMLHEPFLFG PASRCHQERP YFQSWLLSPA DAAPDFPAGG PPPAAAAAAT AYGPDARPGQ
SPGRLEALGG RLGRRKSGP KKERRRTESI NSAFELREC IPNVPADTKL SKIKTLRLAT SYIAYLMDVL AKDAQSGDPE
AFKAELKKAD GGRESKRKRE LQHEGFPPA LGPVEKRIKG RTGWPQQVWA LELNQ
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